

RS232 TO 3-PORT RS485 HUB

Optical isolation manual

Product introduction

The product of RS232 to RS485 bidirectional converter, compatible with RS-232C and RS-485 standards, which consists of converting single-ended RS-232 signals into balanced differential 2-wire RS485 signals, and providing 500V lightning surge protection power per line. In addition, the surge voltage and transient overvoltage generated on the line for various reasons, so that the enhanced anti-interference capability ensures the high-speed transmission of the RS-485 interface. Wide range of applications: industrial automation control systems, access control systems, power control systems, parking lot systems, etc.

Scope of application



Basic parameters

- Compatible with RS-232, RS-485 TIA/EIA standards.
- Communication rate: 300bps-47100bps.
- Each group can connect 32 RS485 devices.
- Each group can send and receive data independently (no need for 3 bus to send and receive switching mode at the same time).
- Communication distance: 1200 meters.
- Working power supply: DC5V-24V.
- Working mode: synchronous half-duplex (RS-485).
- RS-485 provides 500V lightning protection, surge, ±15KV ESD protection per line and prevents common ground interference.
- Supports photoelectric splitter and power operation module, the isolation voltage is 1000V.
- Operating environment: -30°C to 60°C, relative humidity is 5% to 95%.
- Suitable for the communication software used, plug and play.
- Supports hot-swapping function.

Product features

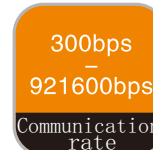
Separate data sending and receiving

Each group can send and receive data independently (no need for 3 bus to send and receive switching mode at the same time).



Communication rate

Communication rate: 300bps-47100bps. Each group can connect 32 RS485 devices.

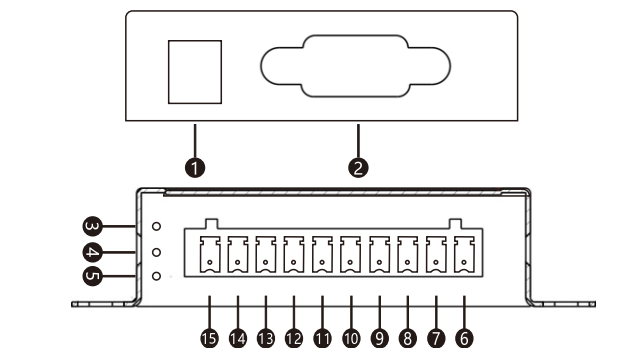


Lightning protection, anti-interference

Adopt lightning protection design, each line provides 500V lightning resistance and surge protection (DCDC power source, such a design makes the product has a strong resistance to the jamming capability is greatly improved in the system with the lightning capability for use in the environment.

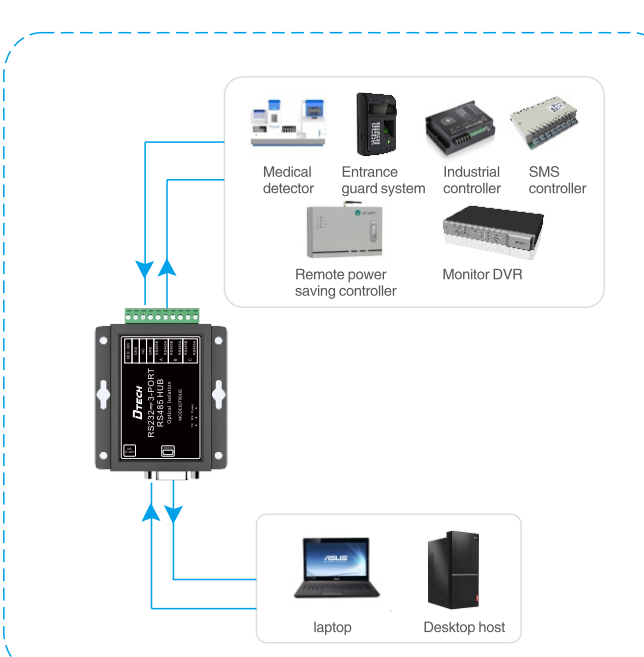


Interface specification



NO.	Symbol	Pin description
1	DC5V-24V	Power input interface
2	RS232	RS232 signal interface
3	TX	Sender indicator
4	RX	Receiver indicator
5	POWER	Power light
6	5-24V	Power supply positive input interface
7	GND	Ground
8	NC	NC
9	GND	Ground
10	RS485	Rs485 B Communication Interface
11	A	RS485 A
12	RS485	Rs485 B Communication Interface
13	B	RS485 B
14	RS485	Rs485 C Communication Interface
15	C	RS485 C
16	RS485	Rs485 A Communication Interface
17	A	RS485 A

connection schematic diagram



parts list

- 1 Product * 1 pcs.
- 12V-1A power adapter * 1 pcs.
- 35MM DIN aluminum rail bracket * 1 pcs.
- Manual * 1 pcs.

Product Warranty Card

Customer Information

Model:	
Date of purchase:	
User telephone:	
User address:	
Distributor:	
Agency address:	
User telephone:	Dealer stamp valid

Intenance Records

Repair item	Date	Fault	Treatment measures	Repair work NO.